MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Manufacturer/Distributor : Kobo Products, Inc.
Address : 3474 South Clinton Avenue
South Plainfield, NJ 07080
Emergency Telephone # : (908) 757-0033
Facsimile Number : (908) 757-0905

Trade Name : **KTZ® INTERVAL GREEN**
INCI : Mica (and) Titanium Dioxide
Chemical Name: : Mica (and) Titanium Dioxide
Material Uses : Colorant-Component in personal care products
Chemical Family : Color additive

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS #	EINECS #
Mica	12001-26-2	310-127-6
Titanium Dioxide	13463-67-7	236-675-5

SECTION 3: HAZARD IDENTIFICATION

Physical State and Appearance: Solid. (odorless, Off white powder with green appearance)

Emergency Overview: May cause respiratory tract, eye and skin irritation.

Routes of Entry: Skin contact and Inhalation. Ingestion (not anticipated).

Potential Acute Health Effects

Eyes: May cause eye irritation. Symptoms include: itching and redness after contact.
Skin: May cause mild skin irritation. Symptoms include: itching and redness after contact.
Inhalation: May cause respiratory tract irritation. Symptoms include: coughing, wheezing or shortness of breath when inhaled.
Ingestion: Not an intended route of exposure. May be hazardous in case of ingestion. Symptoms include gastrointestinal tract upset and diarrhea.

Potential Chronic Health Effects

Additional information See Toxicological information (section 11)

Medical Conditions Overexposure: Aggravated by Repeated or prolonged inhalation of any dust particulate may aggravate respiratory medical conditions.

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If symptoms persist, seek medical attention.
Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reusing. Thoroughly clean shoes before reuse. If symptoms develop, seek medical attention.
Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, seek medical attention.
Ingestion: Do not ingest. If this material is swallowed, call a physician immediately. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Flammability: Non-flammable
Fire Fighting Media And Instructions: In case of fire, use water spray (fog), foam, dry chemical, or CO2
Protective Clothing (fire): Wear self-contained breathing apparatus and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill and Leak Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional regulatory requirements.

Large Spill and Leak Use appropriate tools to put the spill material into a labeled waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional regulatory requirements. Check TLV in section 8 of MSDS and with local authorities.

Spill Kit information No specific spill kit required for this product.

SECTION 7: HANDLING AND STORAGE

Handling : Avoid generating dust. Avoid breathing dust. Use only with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Keep container closed. Wash thoroughly after handling.

Storage : Keep container dry. Keep containers sealed until ready for use.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Levels:

	OSHA		ACGIH	
Component	TWA	PEL	TWA	TLV
TiO2	15 mg/m^3		10 mg/m^3	
Mica	3 mg/m^3		3 mg/m^3	

Personal Protection:
Eye: Safety glasses with side shields or goggles
Body: Lab coat
Respiratory: Use NIOSH/MSHA approved air-purifying respirator as needed to control exposure.
Hand: Recommended: Gloves

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°C)	:	N/A	Percent Volatile By Vol. (%)	:	N/A
Freezing Point (°C)	:	N/A	Vapor Density (Air=1)	:	N/A
Melting Point (°C)	:	> 1000	Evaporation Rate (Buac=1)	:	N/A
Vapor Pressure (mm hg)	:	N/A	Solubility In Water	:	Insoluble
Bulk Density (g/cbi.)	:	N/A	Appearance & Odor	:	Off white powder with green appearance. No Odor

SECTION 10: STABILITY AND REACTIVITY

Stable:	Stable
Hazardous Polymerization:	None
Incompatibility:	Strong oxidizing agents and strong acids.
Hazardous Decomposition Products:	Nature of decomposition products is not known.

SECTION 11: TOXICOLOGICAL INFORMATION

Titanium Dioxide*

Skin Irritation : Dermal LD_{50} > 10 g/kg (Rabbit)
Eye Irritation : No data

Acute Oral Toxicity : Non-toxic, LD_{50} > 25 g/kg (rat)
Inhalation LC_{50} : >6.82 mg/L (4 hour)
*: Trochimowicz. et. Al., J. Appl. Tox. 8, 383-385 (1988)

Mica

Skin Irritation No data

Eye Irritation	No data
Oral Toxicity (rat)	LD_{50} > 15,000 mg/kg
Sensitization	Non-toxic

Chronic Effects on Humans **CARCINOGENIC EFFECTS:** Classified None. By NIOSH [Titanium Dioxide]. Classified A4 (not classifiable for human or animal.) by ACGIH Classified None. By NIOSH [Iron Oxide]. Classified A4 (not classifiable for human or animal.) by AGIH, 3 (not classifiable for human.) by IARC [Iron Oxide].
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
Repeated or prolonged exposure to the substance at concentrations above exposure limits may cause respiratory damage.
Target Organs: eyes, lungs, skin.

Acute Effects on Humans May cause skin, eye, and respiratory irritation.

Sensitization Repeated or prolonged exposure to the substance at concentrations above the exposure limits may cause respiratory tract and lung sensitization.

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity of the Products Of Biodegradation: N/A

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of according to all federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Classification	Not regulated.
TDG Classification	Not regulated.
IMO/IMDG Classification	Not regulated.
ICAO/IATA Classification	Not regulated.

SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean Air Act (CAA) 112 accidental release prevention: No products were found.
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) Not controlled under WHMIS (Canada)

International Regulations

Labeling according to EC Directives

No labeling is needed.

Safety advice :
Avoid unnecessary release to the environment. Refer to local and federal regulations if accidental released.

International List

Australia (NICNAS): MICA; TITANIUM DIOXIDE;

JAPAN (MITI): MICA; TITANIUM DIOXIDE;

Korea (TCCL): MICA; TITANIUM DIOXIDE;

Philippines (RA6969): MICA; TITANIUM DIOXIDE;

State Regulations Pennsylvania RTK: TITANIUM DIOXIDE: (generic environmental hazard)

Massachusetts RTK: MICA; TITANIUM DIOXIDE;

New Jersey: MICA; TITANIUM DIOXIDE;

SECTION 16: OTHER INFORMATION

Hazardous Material Information System [Ratings Key: 4= Highest hazard, 0= Lowest hazard]
(U.S.A.)

Health	1
Fire Hazard	0
Reactivity	0
Personal Protection	E

EU S phrases : S22/25/36/37- Do not breathe dust, avoid contact with eyes, wear suitable protective clothing and gloves.

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By Nancy O'Shea

Note:
The statements made here are based upon technical data that Kobo Products Inc. believes to be reliable, are intended to describe the product with regard to necessary safety precautions. They do not guarantee special characteristics. This information is furnished without warranty, expressed or implied, except that it is accurate to the best of our current knowledge.